

Progress Report Two

Arana Charlebois, Tristan
Carvalho, Cam
Corbett, Cole
Kassie, Turner
Pauls, Andrew
Wallace, Jordan

Cosc 4P02
Dr. Naser Ezzati-Jivan

March 23, 2025

Contents

1	Introduction	3
2	System Details and System State	3
2.1	Backend Development	3
2.2	Frontend Development	4
3	Challenges During Development	9
3.1	Backend Challenges	9
3.2	Frontend Challenges	9
4	Changes in Requirements	9
4.1	Requirement Redefinitions	10
4.2	Cut Requirements	10
5	Conclusions and Next Steps	10
6	Group Member Contributions	11
6.1	Arana Charlebois, Tristan	11
6.2	Carvalho, Cam	11
6.3	Corbett, Cole	12
6.4	Kassie, Turner	12
6.5	Pauls, Andrew	13
6.6	Wallace, Jordan	13
7	Github Logs	14
7.1	Logistics System Repository	15
7.2	Frontend Repository	17

1 Introduction

Before presenting the progression of the Logistics System, we would like to provide a brief reminder of the goal and benefits of such a system. The goal is to compute a viable travel route for a user, based on locations, number of drivers (for companies) and additional route options such as avoiding highways. As mentioned, such a system is of value to logistics and courier companies, since it offers a way for a company to organize a team of delivery drivers. Furthermore, the system can assist users who need an optimized route to complete daily tasks efficiently. What we plan to complete for the 4P02 project is truly just the beginning of a system of this kind. The idea has high potential in numerous areas of logistics.

Within our previous submissions for the 4P02 project, we outlined the purpose of our Logistics System, requirements/goals for the system as well as providing an update in regards to the development of our system in the case of progress report one. The purpose of this document is to provide another update on the current state of our Logistics System, particularly focusing on the improvements to the UI and addition of multi-TSP capabilities. Along with information about the system's capabilities, we will also outline major challenges during development, changes in development caused by an adjustment of requirements, group member contributions to the overall project and the Github activity for the groups operational repositories.

2 System Details and System State

Like in the previous report, the following section will be presented in two parts, the frontend progression and the backend progression. However, in contrast to the first report, we would like to showcase the backend, then the frontend, as the advancements on the backend will segment well into the frontend's growth.

2.1 Backend Development

In this subsection, we want to clearly explain the functionality of the backend, as there is no real user interface for this subsystem. Previously, we had completed and presented the content in regards to a GA for solving single-TSP. Shortly after, we began the task of adapting our existing solution for single-TSP to be a viable one for multi-TSP. Our original plan was to implement K-Medoids clustering using javaML to partition nodes, however, this led to inconsistency in the results of the library and was ultimately removed. Naturally, this wasn't acceptable, and from the work completed by Cole, we were able to make use of the Google Or-tools and a distance matrix computed by the Graphhopper library to partition nodes and find an ordering. The Google Or-tools library has essentially provided a solution for the Multi-TSP aspect of the backend of the system, and along with adjustments to

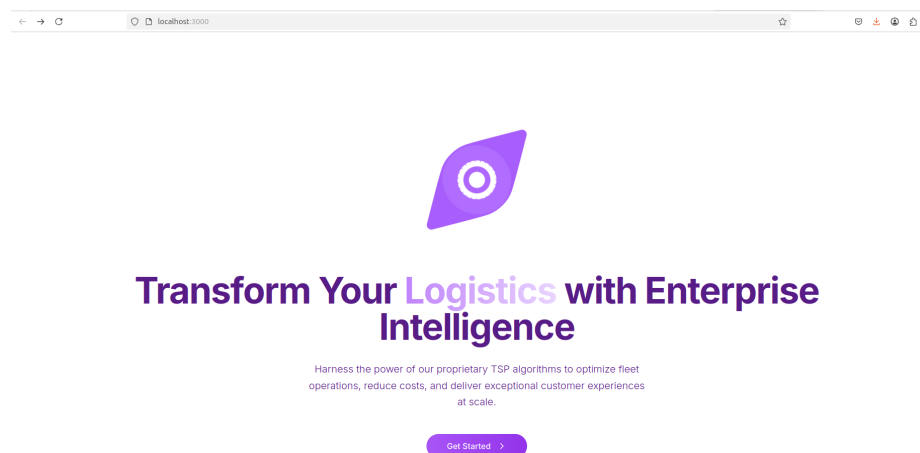
the already existing GA, we consider this aspect of the system complete.

The next area of the backend of the system that we want to highlight is the addition of flags for a given route, making use of the capabilities of Graphhopper. We have added the ability to read in these flags from an input file along with the locations to generate a route. Flags include options such as avoiding highways, tolls, unpaved roads, ferries, and train tracks, allowing the users to control more regarding the final route. These options are reflected in the distance matrix when using multi-TSP and the fitness function when using single-TSP.


Finally, we show the update to the overall architecture of the backend of the system. Both inputs and outputs are in the form of GeoJson files. Inputs and outputs can account for the user seeking a single-TSP or multi-TSP solution (addition of driver-ID to a location), as well as ensuring that the output lists the proper stops for a vehicle route returning to the starting location or not. Also, when the code is deployed on a server, it waits for a request from a user, and passes this information to a thread to complete the task, ensuring that the server has no need to rebuild the libraries repeatedly saving time.

2.2 Frontend Development

Development on the frontend is now the main focus of the group's time, as this has naturally alot of work to complete and needs to reflect the completion of multi-TSP on the backend. We show the current state of the frontend, starting with the landing page.



Just as before, the users can sign into their accounts via login page.



Welcome back


Sign in to your account to continue

Email

Password [Forgot password?](#)

Sign in

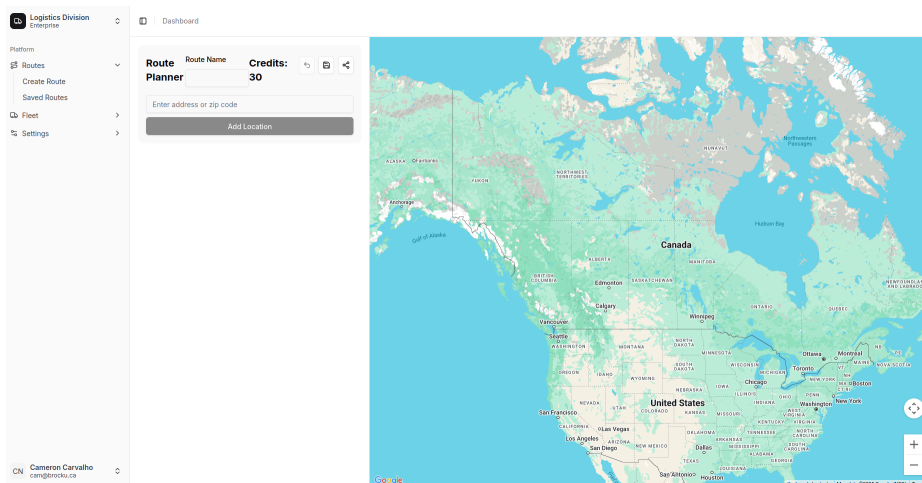
OR CONTINUE WITH



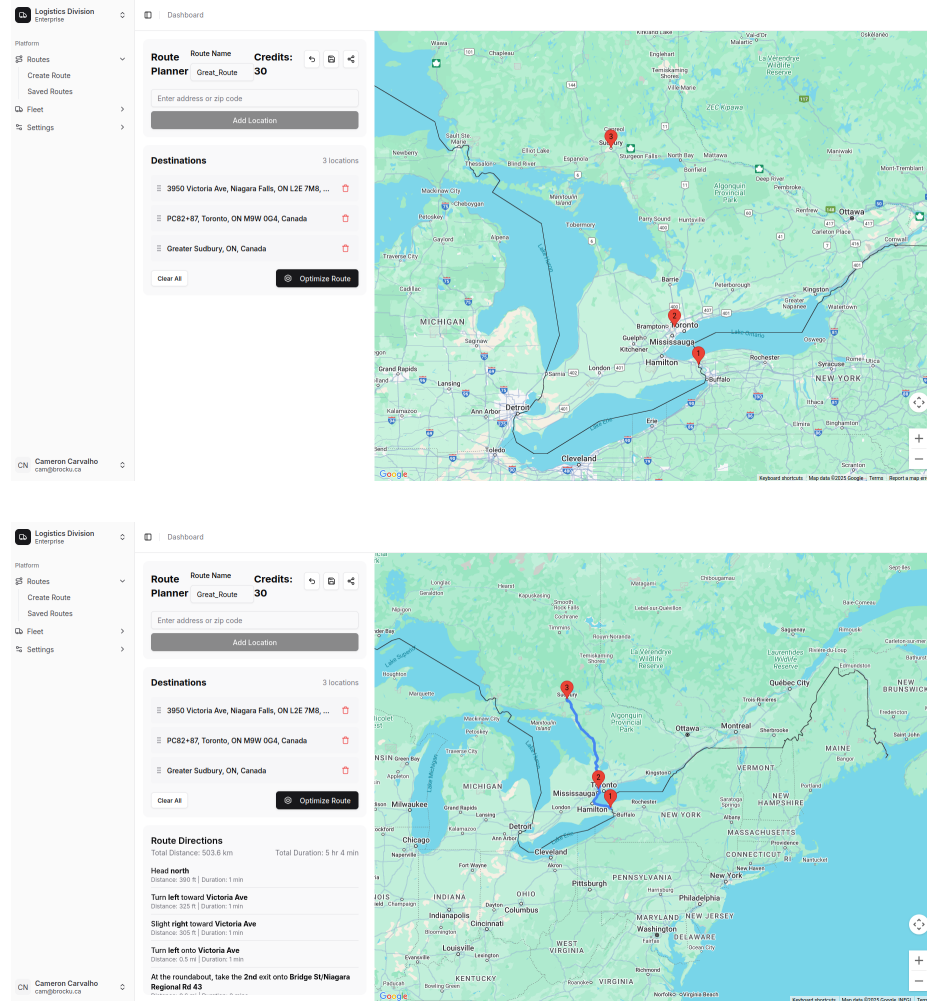
Sign in with Google

Don't have an account? [Sign up](#)

The dashboard has progressed to reflect changes made to the requirements in [section 4](#), and other aspects of the system that had yet to be added in the previous report, such as a credit system.



Next, we show the routing features of the frontend. Just as before, the ordering of locations is adjusted based on the route returned by the GA, but now, we note the addition of the directions associated with a route. This functionality can be seen in the two following screenshots;



The fleet page was adjusted to be consistent with the altered requirements in [section 4](#). The following shows the functionality of the fleet page, with the addition of a driver to a user's fleet.

Logistics Division
Enterprise

Platform

Routes

Create Route

Saved Routes

Fleet

Settings

CN Cameron Carvalho
cam@rosko.ca

Dashboard

Fleet Management

Manage your vehicles and driver information

Add Vehicle

Total Vehicles

1

Vehicle	Driver	Email	Add 10 Credits
Example Car	Driver 1	test@gmail.com	Delete

Add New Vehicle

×

Enter the details of the new vehicle to add it to your fleet.

Vehicle

Mazda

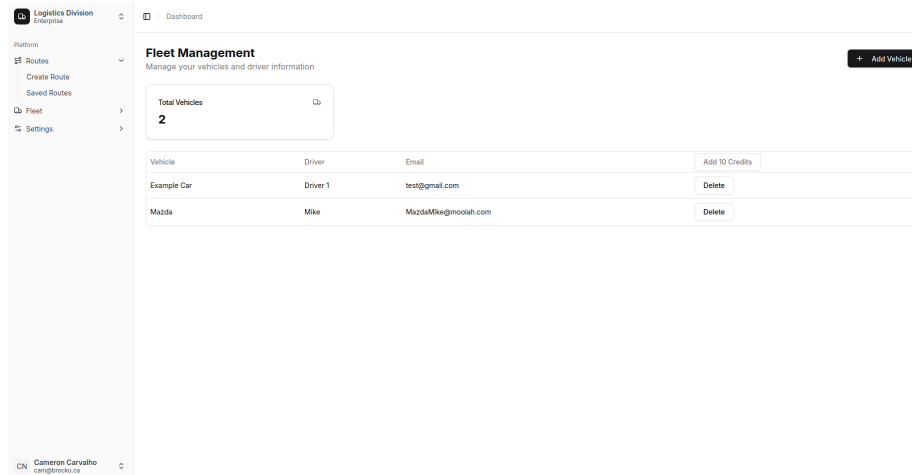
Driver

Mike

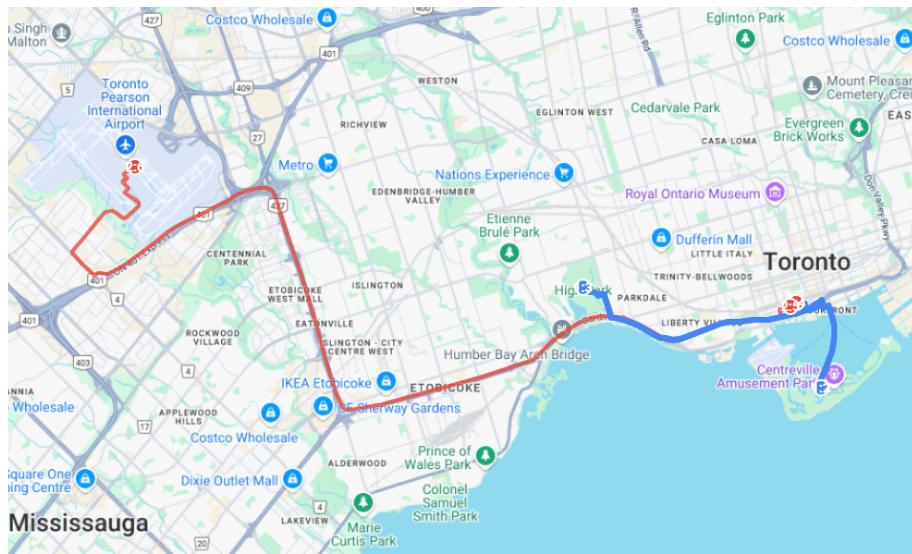
Email

MazdaMike@moolah.com|

Add Vehicle



Finally, while not complete, we have the preliminary steps completed for drawing lines for routes in a multi-TSP situation. While this is currently using hard coded data, it shows the main idea of how the system will behave for drawing multiple lines.



Other additions to the frontend include the addition of a logout button, multi-TSP directions, and the addition of flags that the user can set to be consistent with Graphhopper capabilities on the backend.

3 Challenges During Development

In this section, we give itemized lists of challenges faced while developing both subsystems. Naturally, the list will be broken into two lists, one for each subsystem.

3.1 Backend Challenges

- Finding tools that can integrate with other libraries, the current system, and are useful for completing the system.
- Adding standardized input and output, and integrating this with the libraries being used and ensuring that the output can be used by the frontend of the system.
- Continuous performance enhancements, for example, not building multiple routes for different conditions in the Graphhopper instance, and only building the one for the conditions that the user selects or keeping the server warm. (Major improvements found by Cole).

3.2 Frontend Challenges

- Keeping minimal branches, as many group members are constantly pushing and making changes as the system progresses.
- Utilizing API calls properly, and being efficient about when and how they're being used as this has real world costs.
- Properly structuring data for saving routes within the DB.
- Writing code for handling the backend output as the middle ware is still being installed.

4 Changes in Requirements

As mentioned earlier in this report, changes were made to the system requirements. The reason for the changes was due to a choice of aiming to complete a system that is polished, and shows consistent functionality throughout the system, rather than one that contains incomplete features. A group of team members (Andrew, Cam, Tristan and Turner) took time to meet (on March 4th, 2025) to redefine the functions of the system and provide clear and concise requirements that can be completed. The requirement changes were recorded and are listed below, in two sections, namely requirement redefinitions and requirements cuts. Note that the bullets listed are the major points of the meeting, many elements of the system were discussed, and small, minor changes were also planned, however, the aspects of the system relating to the minor changes isn't the focus of the report. The

submission of the document specifying the altered requirements and meeting itself will be submitted with the final submission of the work.

4.1 Requirement Redefinitions

- Each user is a standalone entity, and when a user makes an account, company information is tied to it if needed. They can save a driver name and email if needed too.
- Once routes can be isolated, a link for that route can be exported (rather than viewing within the application as another user).
- Landing page to be remade to be consistent with the overall system.
- Addition of billing page, so that user credit system can be navigated easily.

4.2 Cut Requirements

- Logistics division and enterprise functionality. As noted above, a user now only keeps a list of contacts, and can export routes to them.
- User having the option to add/remove drivers when the route has already been computed (and also any other adjustments to the route).
- Notifications.
- Settings page and all sub-pages are to be cut in place of a billing page. The settings page contained mostly information regarding enterprises, which has cut functionality too.

5 Conclusions and Next Steps

Now, we discuss the next plans in the development of the Logistics System and wrapping up the project. Between the previous progress report and this one, overall, we believe that we have made good progression. Multi-TSP has been implemented on the backend, message passing between the front and backend of the system is standardized (waiting on the middleware), and the frontend has seen numerous improvements as seen in [section 2](#). A main factor in the development of the system was that collectively, as a group we agreed that having a complete system that has been tested is an overall goal, and in turn, we needed to reduce the scope of the overall project. Our focus is on two main aspects; completing the polyline logic for multi-TSP as well as setting up the middleware for message passing between the front and backend.

After the logic for polylines and middleware, we want to take time before testing and system validation to ensure that the product that we have is in line with our current, adjusted requirements. This will then lead into system

testing and validation, before the presentation and report. Overall, while for about two weeks after the submission of the first report, development continued as planned, we needed to reevaluate the situation that we were in, and take time to work on the requirements, and more time afterwards to develop so that the system will be in a form that is viable to launch. As a group, we are happy with the work that has been completed and the direction that the project is heading after feeling slightly unsure about the state of the system.

6 Group Member Contributions

Below is the work completed by each respective member (Note that the description of the work completed by each member is given by the member themselves);

6.1 Arana Charlebois, Tristan

- Implemented a MongoDB database hosted on Atlas to store user account information, and eventually routes generated by our GA.
- Registration and login flow prototype using Next.js was developed, implementing NextAuth.js as middleware to secure routes and store user data safely.
- Third-party OAuth providers like Google were implemented to allow users to login with already existing accounts, and a password reset flow via nodemailer was made to allow users to reset their password by following a link sent to their email.
- Added the ability to name and save routes into the MongoDB database, and load routes back to the frontend to display on the Google Maps view.
- Created fleet page to store information about vehicles, drivers, and their relevant contact information.
- Implemented credit system where users can add credits to their account. Performing actions such as saving and loading routes will deplete their credits based on the complexity of the route.

6.2 Carvalho, Cam

- Set up a VPS to handle our deployments and built a route calculation system that can scale with user growth using RabbitMQ.
- Created initial project backlog and initial sprints on Trello.

- Ported local systems to a dedicated server and configured services like MongoDB, Apache Kafka. Also connected the backend of the system to the frontend for single-TSP and currently completing for multi-TSP.
- Added stripe billing support for in-web purchasing of user credits.
- Deployed new version of the microservice for route to work with the new multi-TSP GA.

6.3 Corbett, Cole

- Researched and identified required libraries and data for our system and created the corresponding Gradle dependencies file as well as a template so other group members can use the identified libraries.
- Refactored the GA for readability and to better align with a standard GA implementation.
- Added elitism to the GA.
- Added graphing for visualization of the overall fitness of the population and testing purposes to the GA.
- Implemented K-Medoids clustering using javaML before switching completing the implementation of multi-TSP using google Or-Tools.
- Created unified program entry point for Cam and Andrew to easily connect the messenger service (RabbitMQ).
- Added support for all 32 additional profile configurations originating from the route options.
- Restructuring of prebuilt libraries, and restructure of code to keep the server warm waiting for a request, improving overall efficiency (sped up the API by 20x in when testing select inputs).

6.4 Kassie, Turner

- Authored both initial draft and final submission of all documents required in the course (project proposal, release planning document, progress report one and progress report two).
- Developed the initial GA used for solving single-TSP, that is the implementation of all core methods in a standard GA.
- Added reading from and writing to standard GeoJson file format allowing the GA to pass information to and from other components within the system.

- Restructured GA classes and methods to handle new route conditions (such as a fitness function that accounts for returning to the starting location).
- Restructured GA input and output classes and methods to account for newly added route flags as well as account for the multi-TSP libraries, added by Cole.

6.5 Pauls, Andrew

- Created initial project backlog and initial sprints on Trello.
- Maintained meeting minutes, recorded the adjusted MVP specifications in adaptation to a tighter timeline than anticipated.
- Amalgamated three branches into one simplified branch which included a combination Tristan's, Jordan's, and Andrew's frontend changes.
- Added changes to the overall UI, including the addition of logout button on dashboard returning the user to the landing page, a simplified landing page and links between the landing page and to authorization pages (in both directions).
- Wrote functions that can read, parse, and handle multi-TSP JSON data from the format specified by Turner.































6.6 Wallace, Jordan






























- Created the logo for the product in Illustrator and Photoshop, later completing a revision of said logo.
- Utilized Google Maps API to allow users to pick auto-completed addresses within Canada when searching a particular location in app.
- Assigned a marker to to given addresses/locations so the user has a visual representation of their route.
- Added directions panel for a selected route, and later updated to account for multi-TSP and users selecting the respective routes.
- Implemented frontend component of the new multi-TSP code which draws an individual poly line for each route.
- Added ability to assign desired number of drivers/vehicles to dashboard.

7 Github Logs































The Github logs for each repository within our Logistics System organization are within their respective subsections. The screenshots recorded were taken on March 22nd, 2025 for the readers reference. Also, note that the repositories included in this section are the ones currently being utilized by the group.





























7.1 Logistics System Repository

Update setupBuildFile.txt	...
 coorbett016 pushed 1 commit to master • 997d55d...bd384c8 • 3 days ago	
Update build.gradle.kts	...
 coorbett016 pushed 1 commit to master • e43b179...997d5d • 3 days ago	
Deleted branch	...
 coorbett016 deleted main • 3 days ago	
fixed issue with internal overflow in ORTOOLS, 6000 is arbitrary, wil...	...
 coorbett016 pushed 1 commit to master • 78d4c15...e43b179 • 4 days ago	
Changed Route class to handle returning to start outputs for both sin...	...
 turner-kassie pushed 2 commits to master • 9dd1bbd...78d4c15 • 5 days ago	
Fitness of individual adapts to flag for returning to starting locati...	...
 turner-kassie pushed 1 commit to master • 069127...9dd1bbd • 6 days ago	
Added reading in new flags from file and passing information	...
 turner-kassie pushed 1 commit to master • a2c10d9...069127 • 6 days ago	
Unified entry point in EntryPoint.java, also abstracted or-tools load...	...
 coorbett016 pushed 1 commit to master • 4e222b...a2c10d9 • 7 days ago	
Another major architecture restructure. Initializer now follows the s...	...
 coorbett016 pushed 1 commit to master • 595228c...4e222b • 7 days ago	
fixed TSPsolve	...
 coorbett016 pushed 1 commit to master • 7277042...595226c • 7 days ago	
added the file writer support back into mTSP	...
 coorbett016 pushed 1 commit to master • 411c844...7277042 • 7 days ago	
Huge architectural changes surrounding how graph hopper is loaded. Se...	...
 coorbett016 pushed 2 commits to master • d942ecc...411c844 • 7 days ago	
Standardized message passing added, input and output from geoJson	...
 turner-kassie pushed 1 commit to master • 3e99239...d942ecc • 9 days ago	
removed deprecated stuff	...
 coorbett016 pushed 1 commit to master • 59e45e6...3e99239 • 14 days ago	
Fixed small bugs, removed unnecessary stuff	...
 coorbett016 pushed 1 commit to master • ed3c117...59e45e6 • 14 days ago	
Fixed dependencies	...
 coorbett016 pushed 1 commit to master • 91cd0d...ed3c117 • 14 days ago	
Forgot to remove a dependency	...
 coorbett016 pushed 1 commit to master • d08e2a9...91cd0d • 15 days ago	
cache was unnecessary for mTSP so I removed it	...
 coorbett016 pushed 1 commit to master • e1597b...d08e2a9 • 15 days ago	
Added google dependency, removed javaML dependency, fixed distance co...	...
 coorbett016 pushed 1 commit to master • 1974570...e1597b • 15 days ago	
Merge branch 'master' of https://github.com/BrockU-4P02-Logistics-Sys...	...
 coorbett016 pushed 2 commits to master • 834deb9...1974570 • 15 days ago	
Added Clustering to locations to clustering and Running Single TSP on...	...
 turner-kassie pushed 1 commit to master • 070c268...834deb9 • 16 days ago	
Merge remote-tracking branch 'origin/master'	...
 coorbett016 pushed 2 commits to master • d650ed8...070c268 • 17 days ago	
Added Setter to Location	...
 turner-kassie pushed 1 commit to master • 2489e21...d650ed8 • 17 days ago	
Created K-Medoids Clustering Algorithm and Function to Interface, as...	...
 coorbett016 pushed 1 commit to master • e929173...2489e21 • 17 days ago	
Merge branch 'master' of https://github.com/BrockU-4P02-Logistics-Sys...	...
 coorbett016 pushed 2 commits to master • 37cd476...e929173 • 17 days ago	
starting location doesnt change from mutation and crossover	...
 turner-kassie pushed 1 commit to master • 9106aac...37cd476 • on Feb 10	
added reading from geoJson and writing to geoJson	...
 turner-kassie pushed 1 commit to master • 0d3a4f9...9106aac • on Feb 5	
Toronto test-harness (GPT-Generated Locations)	...
 coorbett016 pushed 1 commit to master • a6b9525...0d3a4f9 • on Feb 4	
added dependencies	...
 coorbett016 pushed 1 commit to master • ff53dfe...a6b9525 • on Feb 4	
Deleted branch	...
 coorbett016 deleted Genetic-Algorithm • on Feb 4	

Deleted branch	...
 ccorbett0116 deleted Genetic-Algorithm-Gradle • on Feb 4	
Added elitism	...
 ccorbett0116 pushed 1 commit to master • 08d91ea..f53dfe • on Feb 4	
Added graphing for min/avg fitness, fixed a bug with fitness for unca...	...
 ccorbett0116 pushed 1 commit to master • 0af4ee5..08d91ea • on Feb 4	
Added getters for routes	...
 ccorbett0116 pushed 1 commit to master • e97311d..0af4ee5 • on Feb 4	
Made location constructor public	...
 ccorbett0116 pushed 1 commit to master • ffd84f1..e97311d • on Feb 4	
switched selection operators, removed getFirst -> get(0)	...
 ccorbett0116 pushed 1 commit to master • 7084ac3..ffd84f1 • on Feb 4	
added seeding to tournamentProbability, returning best individual fro...	...
 ccorbett0116 pushed 1 commit to master • a3a16c9..7084ac3 • on Feb 4	
added probability to tournament selection	...
 turner-kassie pushed 1 commit to master • 677381a..a3a16c9 • on Feb 4	
Rewrote the code for abstraction and readability, the core logic is t...	...
 ccorbett0116 pushed 1 commit to master • 167ec44..677381a • on Feb 4	
Found Bugs	...
 turner-kassie pushed 1 commit to master • e48c23d..167ec44 • on Jan 31	
added exporting geojson	...
 turner-kassie pushed 1 commit to master • 169101a..e48c23d • on Jan 29	
added exporting route features	...
 turner-kassie pushed 1 commit to master • 5ee3818..169101a • on Jan 29	
Added replacement, rates, parent selection	...
 turner-kassie pushed 1 commit to master • adac196..5ee3818 • on Jan 27	
added Methods for testing and selection	...
 turner-kassie pushed 1 commit to master • 10ddae6..adac196 • on Jan 26	
added mutation and ordered crossover	...
 turner-kassie pushed 1 commit to master • 4a5a59d..10ddae6 • on Jan 25	
Fitness function, initial population	...
 turner-kassie pushed 1 commit to master • 2a6609c..4a5a59d • on Jan 24	
Added to location	...
 turner-kassie pushed 1 commit to master • cd7795f..2a6609c • on Jan 22	
added location	...
 turner-kassie pushed 1 commit to master • 138c2ea..cd7795f • on Jan 22	
added GA class	...
 turner-kassie pushed 1 commit to master • b036113..138c2ea • on Jan 22	
init	...
 ccorbett0116 created master • b036113 • on Jan 22	
Create README.md	...
 ccorbett0116 created Genetic-Algorithm-Gradle • b2c15b0 • on Jan 22	
finished routing beta	...
 ccorbett0116 pushed 1 commit to Genetic-Algorithm • 0cfebf9a..94a6ff9 • on Jan 21	
graph hopper setup	...
 ccorbett0116 pushed 1 commit to Genetic-Algorithm • 9e4ea08..0cfebf9 • on Jan 21	
graph hopper setup	...
 ccorbett0116 pushed 1 commit to Genetic-Algorithm • 97bea98..9e4ea08 • on Jan 21	
Built with maven	...
 ccorbett0116 pushed 1 commit to Genetic-Algorithm • 8676212..97bea98 • on Jan 21	
test	...
 turner-kassie pushed 1 commit to Genetic-Algorithm • 1559986..8676212 • on Jan 21	
hello world	...
 ccorbett0116 pushed 1 commit to Genetic-Algorithm • b2c15b0..1559986 • on Jan 21	
Create README.md	...
 ccorbett0116 created Genetic-Algorithm • b2c15b0 • on Jan 21	
Create README.md	...
 turner-kassie created main • b2c15b0 • on Jan 20	

7.2 Frontend Repository

autoload route, no button	...
 git-iso pushed 1 commit to mongodb • 045d13e...8126a7a • yesterday	
d	...
 git-iso pushed 1 commit to mongodb • ca16a73...045d13e • yesterday	
frontend acquiring multiTSP JSON data from output.txt	...
 AndrewPauls created vri_multiTSP • bade1fc • yesterday	
load	...
 git-iso pushed 1 commit to mongodb • 036312d...ca16a75 • 4 days ago	
Loading routes in arrays	...
 git-iso pushed 1 commit to mongodb • 511767c...03e312d • 4 days ago	
use session storage	...
 git-iso pushed 1 commit to mongodb • 6b28c7b...511767c • 4 days ago	
s	...
 git-iso pushed 1 commit to mongodb • 3ae8fab...6b28c7b • 4 days ago	
sanity checks	...
 git-iso pushed 1 commit to mongodb • 019d945...3ae8fab • 4 days ago	
Deleted branch	...
 AndrewPauls deleted Andrewsbranch • 4 days ago	
load route into local storage as strings and redirect to route page	...
 git-iso pushed 1 commit to mongodb • b8a17d6...019d945 • 4 days ago	
Merge branch 'main' into mongoddb	...
 git-iso pushed 4 commits to mongodb • 87ae6005...b8a17d6 • 4 days ago	
Load prototype	...
 git-iso pushed 1 commit to mongodb • b9ddeb4...87ae6005 • 6 days ago	
Name for route saving	...
 git-iso pushed 1 commit to mongodb • 7b50e12...b9ddeb4 • 6 days ago	
Save and Load Routes	...
 git-iso pushed 1 commit to mongodb • a7eca4f...7b50e12 • 7 days ago	
Credits	...
 git-iso pushed 2 commits to mongodb • 0652736...a7eca4f • 8 days ago	
changes for credits	...
 git-iso pushed 1 commit to mongodb • 55ee70f...0652736 • 8 days ago	
Merge pull request #2 from BrockU-4P02-Logistics-System/amalgamated Pull request merge	...
 cjameron92 pushed 12 commits to main • c64385...a1284ce • 8 days ago	
Simpler Landing, linked to new auth pages with Server hosting DB, ama...	...
 AndrewPauls pushed 1 commit to amalgamated • 55ee70f...ccd2831 • 9 days ago	
testing for routes	...
 AndrewPauls created amalgamated • 55ee70f • 9 days ago	
testing for routes	...
 git-iso pushed 1 commit to mongodb • 49ca300...55ee70f • 10 days ago	
Added Directions	...
 mynameistilljordan pushed 1 commit to Directions • c64385...307e09b • 13 days ago	
Merge pull request #1 from BrockU-4P02-Logistics-System/mongoddb	...
 mynameistilljordan created Directions • c64385 • 13 days ago	
more	...
 git-iso pushed 1 commit to mongodb • cf926e6...49ca300 • 15 days ago	
more fleet	...
 git-iso pushed 2 commits to mongodb • f1ca3d2...cf926e6 • 15 days ago	
Updated Landing Page. Inserted logout feature on dash. Removed Sett...	...
 AndrewPauls pushed 1 commit to Andrewsbranch • 7368b02...10b62ec • 15 days ago	
Add Fleet Management using DB	...
 git-iso pushed 2 commits to mongodb • e0f187a...f1ca3d2 • 17 days ago	
login	...
 git-iso pushed 1 commit to mongodb • 6f4a904...e0f187a • 18 days ago	
DB tests	...
 git-iso pushed 1 commit to mongodb • 0ccb670...6f4a904 • 20 days ago	
db test basic	...
 git-iso pushed 1 commit to mongodb • ab128cb...0ccb670 • 21 days ago	
Jest: Page rendering tests	...
 git-iso pushed 1 commit to mongodb • a79d880...ab128cb • 21 days ago	

Merge pull request #1 from BrockU-4P02-Logistics-System/mongodb	Pull request merge	...
 cjcameron92 pushed 28 commits to main • e31ea10...c664385 • 22 days ago		
Test framework with Jest, example for landing page in _tests_		...
 git-iso pushed 1 commit to mongodb • b61c2a3...a79d680 • 23 days ago		
login button added to landing page		...
 AndrewPauls created AndrewsBranch • 7368b02 • 24 days ago		
pw reqs		...
 git-iso pushed 1 commit to mongodb • 3de5e2f...b61c2a3 • 24 days ago		
update db		...
 git-iso pushed 1 commit to mongodb • 0744540...3de5e2f • 25 days ago		
package changes		...
 git-iso pushed 1 commit to mongodb • d213416...0744540 • 25 days ago		
Reformat and remove old pages		...
 git-iso pushed 3 commits to mongodb • 682f8e8...d213416 • 27 days ago		
Merge branch 'main' into mongodb		...
 git-iso pushed 2 commits to mongodb • 6311711...682f8e8 • 28 days ago		
remove logging		...
 git-iso pushed 1 commit to mongodb • 569fc87...6311711 • 28 days ago		
added landing page + ui	Force push	...
 cjcameron92 force pushed to main • 60df818...e31ea10 • 29 days ago		
Format		...
 git-iso pushed 1 commit to mongodb • 545f41b...569fc87 • on Feb 13		
added: backend hook		...
 cjcameron92 pushed 1 commit to main • e92d9f3...60df818 • on Feb 8		
Update README.md		...
 cjcameron92 created Feature/cjcameron92 • e92d9f3 • on Feb 8		
Salt password & verification checks		...
 git-iso pushed 1 commit to mongodb • 8251912...545f41b • on Feb 7		
Add Google Login using NextAuth OAuth		...
 git-iso pushed 1 commit to mongodb • 5921117...8251912 • on Feb 5		
Update README.md		...
 cjcameron92 pushed 1 commit to main • 380316f...e92d9f3 • on Feb 4		
Use org email		...
 git-iso pushed 1 commit to mongodb • 0eb327f...5921117 • on Feb 2		
Added Google Maps API		...
 mynamesistilljordan pushed 1 commit to main • 351eac4...380316f • on Jan 31		
Encrypt reset flow		...
 git-iso pushed 1 commit to mongodb • 2819f26...0eb327f • on Jan 26		
Add reset password flow via email		...
 git-iso pushed 1 commit to mongodb • 0e57550...2819f26 • on Jan 24		
Implement email messaging using nodemailer and Google SMTP		...
 git-iso pushed 1 commit to mongodb • 6d02e12...0e57550 • on Jan 21		
Add bcryptjs declaration		...
 git-iso pushed 1 commit to mongodb • 0057340...6d02e12 • on Jan 21		
Moved login prototype to separete page, restored Vercel default		...
 git-iso pushed 1 commit to mongodb • 5613b60...0057340 • on Jan 17		
Merge branch 'main' into mongodb		...
 git-iso pushed 2 commits to mongodb • 4ed3889...5613b60 • on Jan 17		
Update google.tsx		...
 cjcameron92 pushed 1 commit to main • 65f06c5...351eac4 • on Jan 17		
Added login demonstration with NextAuth. Info is stored and retrieved...		...
 git-iso created mongodb • 4ed3889 • on Jan 15		
Update package.json		...
 cjcameron92 pushed 1 commit to main • 9a8ca17...65f06c5 • on Jan 14		
refactor: fixed lint issues		...
 cjcameron92 pushed 1 commit to main • 7701916...9a8ca17 • on Jan 14		
added: initial commit		...
 cjcameron92 created main • 7701916 • on Jan 14		